

SPECIFICATIONS

Circuit System:

2-FET 13-transistor 9-diode

superheterodyne, 3-transistors for

auxiliary circuit

Frequency Coverage:

FM 87.5~108 MHz (3.42~2.78 m) MW 530~1,605 kHz (566~187 m) SW1 1.6~3.5 MHz (187.5~86 m) SW2 3.5~7 MHz (86~43 m) SW3 7~14 MHz (43~21 m)

SW4 14~26.1 MHz (21~11 m)

Intermediate Frequency:

FM 10.7 MHz

AM 455 kHz

Antenna System:

FM built-in telescopic antenna

MW built-in ferrite bar antenna or

external antenna

SW built-in telescopic antenna or

external antenna

Sensitivity

at 50 mW output:

FM $0.9\mu V$ (1 dB) at S/N 6 dB MW $16\mu V/m$ (24 dB/m)

SW $1.5 \mu V (3.5 dB)$

Selectivity

at ±10 kHz off-resonance:

45 dB at 1,400 kHz

Power Output

at 10% distortion:

1.2W 1.7W

maximum: 1.7

Current Drain

at zero signal: FM 30 mA, MW/SW 25 mA

at 10% distortion: 500 mA

000 1111

Power Requirement:

Four "D" size flashlight batteries 6V

in total or ac 120 V $50/60\,\mathrm{Hz}$

Speaker:

 $10 \,\mathrm{cm} \times 15 \,\mathrm{cm} \,(4^{\prime\prime} \times 6^{\prime\prime}), \,8\Omega$

Dimensions:

290 mm(W) x 222 mm(H) x 100 mm(D)

 $(11^3/8" \times 8^3/4" \times 3^{15}/16")$

Weight: $3.65 \text{ kg } (8 \text{ lb } \frac{1}{2} \text{ oz})$





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SECTION 1 OUTLINE

1-1. BLOCK DIAGRAM

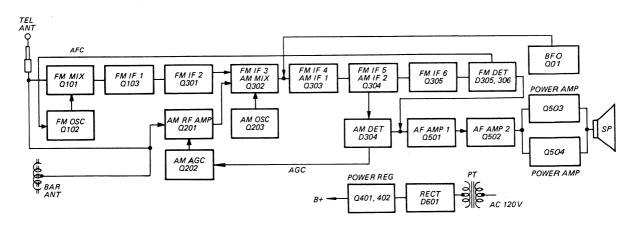
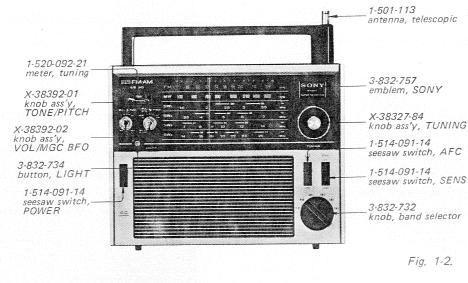


Fig. 1-1.

1-2. EXTERNAL VIEW



3-823-050 terminal, ext antenna

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1-3. INTERNAL VIEW

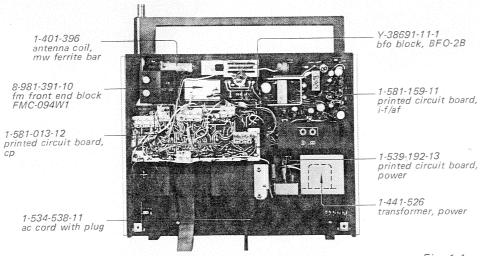


Fig. 1-4.



SECTION 2 DISASSEMBLY AND REPLACEMENT

2-1. REAR CABINET REMOVAL

- 1. Place the set rear-side-up on a padded work surface.
- 2. Remove the three screws marked (A) in Fig. 2-1.
- 3. Lift up the bottom side of the rear cabinet.

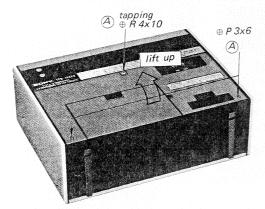


Fig. 2-1. Rear cabinet removal

2-2. CHASSIS REMOVAL

- 1. Pull out the six knobs, VOLUME, TONE, MGC BFO, PITCH, TUNING and Band Selector. (See Fig. 2-2.)
- 2. Loosen the screw marked (B) in Fig. 2-2.
- 3. Pull out the telescopic antenna.
- 4. Remove the rear cabinet.

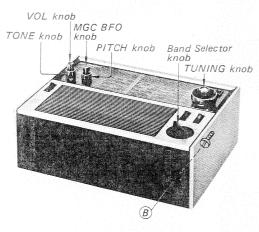


Fig. 2-2. Chassis removal

- 5. Unsolder the four lamp leads, GRY and RED, shown in Fig. 2-3.
- 6. Remove the two screws marked © in Fig. 2-3.
- 7. Lift up the chassis as shown in Fig. 2-4.
- 8. Unsolder the two leads at speaker terminal.

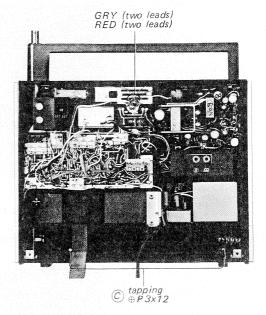


Fig. 2-3. Chassis removal

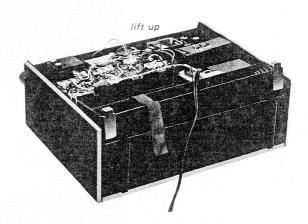


Fig. 2-4. Chassis removal

2-3. CP CIRCUIT BOARD REMOVAL

- 1. Remove the rear cabinet.
- 2. Remove the chassis.
- 3. Remove the three screws marked ① in Fig. 2-5.
- 4. Unsolder the seven leads and the three braided wires in Fig. 2-6.
- 5. Lift up the cp circuit board in the direction shown by the arrow in Fig. 2-5.

Note: The switch shaft on the circuit board can be removed from the sprocket by lifting up the circuit board.

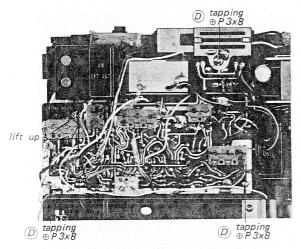


Fig. 2-5. Cp circuit board removal

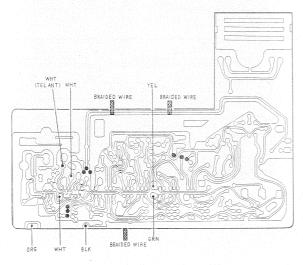


Fig. 2-6. Cp circuit board removal

2-4. IF/AF CIRCUIT BOARD REMOVAL

- 1. Remove the rear cabinet and the chassis.
- 2. Pull off the jack holder shown in Fig. 2-7.
- 3. Remove the three screws marked (E) in Fig. 2-7.
- 4. Pull out the i-f/af circuit board carefully in the direction shown by the arrow in Fig. 2-7.

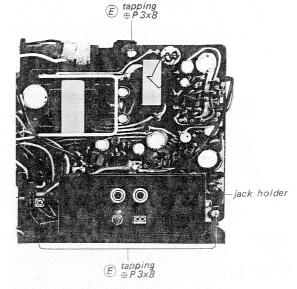


Fig. 2-7. I-f/af circuit board removal

TFM-1600B

2-5. POWER SUPPLY CIRCUIT BOARD REMOVAL

- 1. Remove the rear cabinet and the chassis.
- 2. Remove the two screws marked @ in Fig. 2-8.
- Place the set rear-side-up on a padded work surface
- 4. Remove the two screws marked H in Fig. 2-9.
- 5. Pull off the transformer-chassis as shown in Fig. 2-10.
- 6. Straighten the bent portion of two tabs with pliers shown in Fig. 2-10.
- 7. Pull off the power supply circuit board.

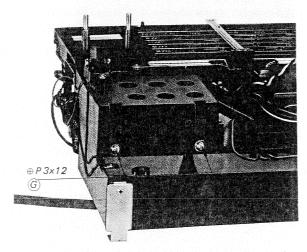


Fig. 2-8. Power supply circuit board removal

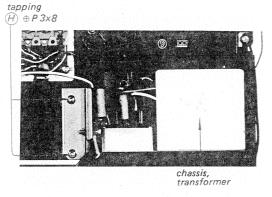


Fig. 2-9. Power supply circuit board removal

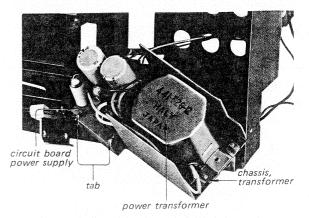


Fig. 2-10. Power supply circuit board removal

2-6. FM FRONT END BLOCK REMOVAL

- 1. Remove the chassis.
- 2. Unsolder the three braided wires and the three leads (WHT, YEL, GRN) in Fig. 2-11.
- 3. Unsolder the three leads and a coaxial cable on the i-f/af circuit board coming from the fm front end block in Fig. 2-12. (Refer to I-f/Af Circuit Board Removal on Page 5.)

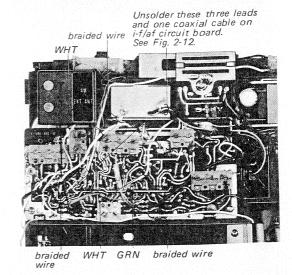


Fig. 2-11. Fm front end block removal

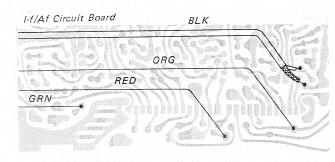


Fig. 2-12. Fm front end block removal

- 4. Remove the pointer form the sliding cord.
- 5. Remove the two screws marked ① in Fig. 2-13 and remove the dial scale in the direction shown by the arrow.
- 6. Remove the three screws marked ① in Fig. 2-14.
- 7. Take off the pointer driving cord from the two pulleys.

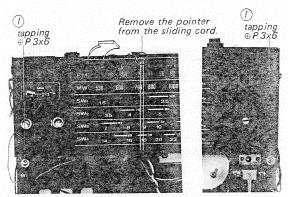


Fig. 2-13. Fm front end block removal

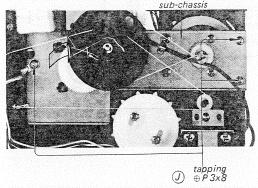


Fig. 2-14. Fm front end block removal

- 8. Lift up the sub-chassis ass'y as shown in Fig. 2-15.
- 9. Remove the four screws marked ® in Fig. 2-15 and © in Fig. 2-16.
- 10. Take out the fm front end block from the sub-chassis.

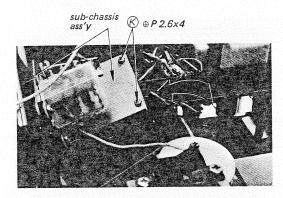


Fig. 2-15. Fm front end block removal

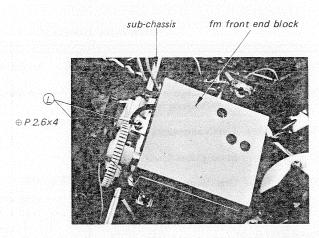


Fig. 2-16. Fm front end block removal

Fm Front End Block Reassembly

- 1. When reassembling fm fornt end block, turn the tuning drum fully clockwise and the double-gear of fm front end fully counterclockwise to its maximum capacitance position.
- 2. Engage the double gear to the tuning drum-gear.
- 3. Set the front end block to the sub-chassis as shown in Fig. 2-16 and fix it with the four screws.

2-7. AM TUNING CAPACITOR REMOVAL

- 1. Take out the sub-chassis as described in procedure 2-6. (See Fig. 2-15.)
- 2. Take off the tuning-capacitor-driving cord.
- 3. Remove the retaining-ring-E shown in Fig. 2-17 and take off the tuning drum.
- 4. Remove the screw marked M in Fig. 2-18 and take off the double-gear.
- 5. Remove the three screws marked N in Fig. 2-19 and pull off the a-m tuning capacitor in the direction shown by the arrow.

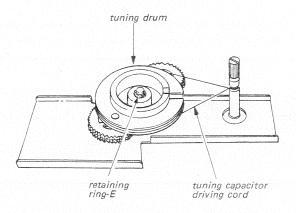


Fig. 2-17.

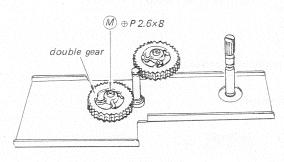


Fig. 2-18.

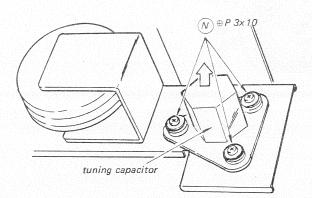


Fig. 2-19.

A-m Tuning Capacitor Reassembly

- 1. Set the tuning capacitor to the sub-chassis by attaching three screws.
- 2. Put the double-gear on the shaft of the tuning capacitor and attach it with the screw.
- 3. Turn the double-gear fully counterclockwise to its maximum capacitance position.
- 4. Set the tuning drum as shown in Fig. 2-17, slot to the right.
- 5. Set the tuning-capacitor-driving cord.

2-8. BAND SELECTOR DRIVE SPROCKET REMOVAL

- 1. Remove the two screws marked (P) in Fig. 2-20 and remove the drive sprocket.
- 2. Remove the three screws marked @ and take off the slide switch bracket.
- 3. Now, the belt is removable.

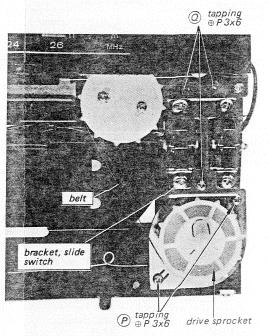


Fig. 2-20.

2-9. BFO BLOCK REMOVAL

- Remove the i-f/af circuit board. (See Page 5.)
- 2. Remove the screw shown in Fig. 2-21.

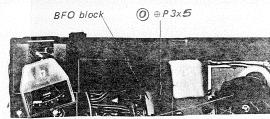


Fig. 2-21. BFO block removal

2-10. DIAL CORD RESTRINGING

Preparation

- 1. Remove the chassis as described in procedure 2-2 and place the chassis dial-scale-side-up.
- 2. Take off the dial scale. (Refer to Step 5 of 2-6 Fm Front End Block Removal on Page 7.)
- 3. Rotate the dial-tuning-drum fully clockwise to its maximum capacitance position.

1. Tuning Capacitor Driving Cord

- 1. Cut a dial cord and make a loop as shown in Fig. 2-22 using a spring and an eyelet.
- 2. String the tuning capacitor driving cord in numerical order as shown in Fig. 2-22.

2. Pointer Driving Cord

- 1. Cut a dial cord as shown in Fig. 2-23.
- 2. Keep the tuning shaft at fully counterclockwise position.
- 3. String the pointer driving cord in numerical order, setting the spring to the position shown in Fig. 2-23.

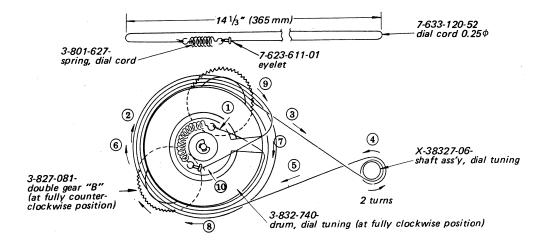


Fig. 2-22. Tuning capacitor driving cord stringing

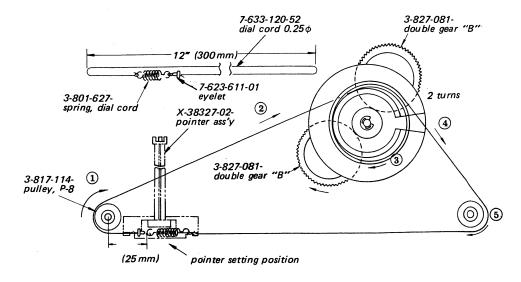


Fig. 2-23. Pointer driving cord stringing

3. Pointer Sliding Cord

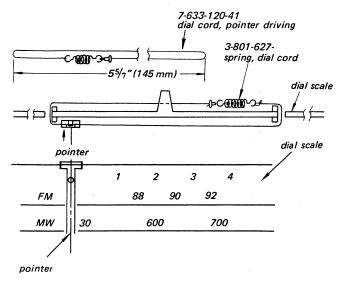
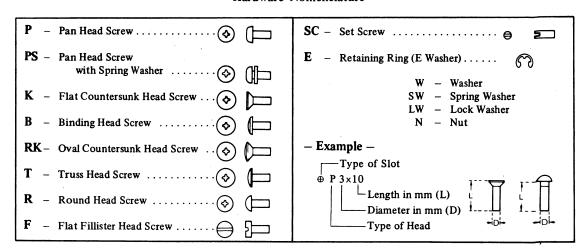


Fig. 2-24. Pointer sliding cord stringing

4. Pointer Setting

- 1. After stringing the pointer sliding cord, attach the dial scale.
- 2. Turn the tuning shaft fully counterclockwise.
- 3. Attach the pointer at 0 on the scale as shown in Fig. 2-24.

- Hardware Nomenclature -



SECTION 3 CIRCUIT ADJUSTMENTS

3-1. FM IF ALIGNMENT

Test Equipments/Tools Required: 10.7 MHz sweep/marker generator

Oscilloscope

Screwdriver for alignment $0.01 \mu F$ ceramic capacitor

Sweep Generator Coupling	Sweep Generator Frequency	Oscilloscope Connection	Adjust	Remarks
Across CF F301 through a capacitor 0.01 μF (See Fig. 3-1 and 3-3a)	10.7 MHz	Across VOL control (See Fig. 3-3b)	IFT F303 F304 (See Fig. 3-3a)	Band Selector: FM AFC Switch: OFF Adjust for maximum amplitude and symmetrical "S" curve on the scope. (See Fig. 3-2)

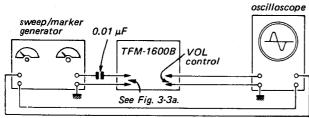


Fig. 3-1. Fm i-f alignment setup

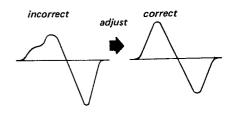
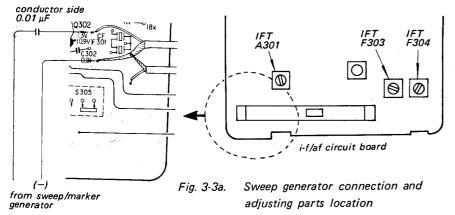


Fig. 3-2. Symmetrical "S" curve



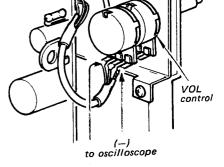


Fig. 3-3b. Oscilloscope connection

3-2. AM IF ALIGNMENT

Test Equipments/Tools Required: Rf signal generator (for a-m)

VTVM 8Ω resistor

Screwdriver for alignment

Rf Signal Generator Coupling	Rf Signal Generator Frequency	VTVM Connection	Adjust	Remarks
Loop antenna (See Fig. 3-4)	455 kHz (1 kHz 30% a-m)	Earphone jack with 8Ω load resistor in parallel	IFT A301 (See Fig. 3-3a)	Band Selector: MW VOL Control: MAX TONE Control: HIGH TUNING Knob: fully clockwise position Adjust for maximum meter reading.

FM-1600B

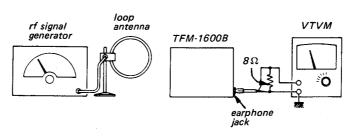


Fig. 3-4. Am i-f alignment, MW frequency coverage and tracking adjustment setup

3-3. FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Test Equipments/

Tools Required: Rf signal generator (for fm and a-m)

Loop antenna VTVM

8Ω resistor

Modulation

Screwdriver for alignment

Preparation: VTVM Connection

: To earphone jack with 8Ω load resistor in parallel.

: FM ... 400 Hz ±22.5 kHz frequency-modulated signal

AM ... 1 kHz 30% amplitude-modulated signal

VOL Control Setting

TONE Control Setting : HIGH

AFC Switch

: OFF

: MAX

SENS Switch

: DX

MGC BFO Control Setting: OFF

Rf Signal Receiver
Generator Generator Dial Adjust Remarks

Adjustment	Generator Coupling	Generator Frequency	Dial Setting	Adjust	Remarks			
FM	Direct con- nection to the	86.0 MHz	Fully left	FM osc coil L104	D. 10 days FM			
Frequency Coverage	EXT. ANT terminals (See Fig. 3-5)	109.5 MHz	Fully right	FM osc trimmer CT104	Band Selector: FM Adjust for maximum meter reading.			
FM Tracking		The special test equipment required for this adjustment makes this strictly a factory adjustment.						
MW		520 kHz	Fully left	MW osc coil L211				
Frequency Coverage		1,680 kHz	Fully right	MW osc trimmer CT211				
MW	Loop antenna (See Fig. 3-4)	620 kHz	Tune to 620 kHz signal	MW ant coil L201 MW rf coil L206	Band Selector: MW Adjust for maximum meter reading.			
Tracking		1,400 kHz	Tune to 1,400 kHz signal	MW ant trimmer CT201 MW rf trimmer CT206				

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
SW-1		1.55 MHz	Fully left	SW-1 osc coil L212	
Frequency Coverage	Direct con-	3.7 MHz	Fully right	SW-1 osc trimmer CT212	David Galacters GW 1
SW-1	nection to the EXT. ANT termi- nals	1.55 MHz	Tune to 1.55 MHz signal	SW-1 ant coil L202 SW-1 rf coil L207	Band Selector: SW-1 Adjust for maximum meter reading.
Tracking		3.7 MHz	Tune to 3.7 MHz signal	SW-1 ant trimmer CT202 SW-1 rf trimmer CT207	
SW-2 Frequency Coverage		3.3 MHz	Fully left	SW-2 osc coil L213	
	Direct con-	7.3 MHz	Fully right	SW-2 osc trimmer CT213	
	nection to the EXT. ANT termi- nals	3.3 MHz	Tune to 3.3 MHz signal	SW-2 ant coil L203 SW-2 rf coil L208	Adjust for maximum meter reading.
Tracking		7.3 MHz	Tune to 7.3 MHz signal	SW-2 ant trimmer CT203 SW-2 rf trimmer CT208	
SW-3	Direct connection to the EXT. ANT terminals	6.7 MHz	Fully left	SW-3 osc coil L214	
Frequency Coverage		14.5 MHz	Fully right	SW-3 osc trimmer CT214	
SW-3		6.7 MHz	Tune to 6.7 MHz signal	SW-3 ant coil L204 SW-3 rf coil L209	Band Selector: SW-3 Adjust for maximum meter reading.
Tracking		14.5 MHz	Tune to 14.5 MHz signal	SW-3 ant trimmer CT204 SW-3 rf trimmer CT209	
SW-4		13.5 MHz	Fully left	SW-4 osc coil L215	
Frequency Coverage	Direct con-	27.0 MHz	Fully right	SW-4 osc trimmer CT215	
SW-4 Tracking	nection to the EXT. ANT termi- nals	13.5 MHz	Tune to 13.5 MHz signal	SW-4 ant coil L205 SW-4 rf coil L210	Band Selector: SW-4 Adjust for maximum meter reading.
		27.0 MHz	Tune to 27.0 MHz signal	SW-4 ant trimmer CT205 SW-4 trimmer CT210	

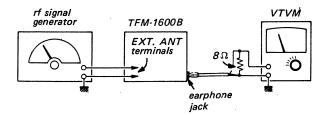


Fig. 3-5. FM, SW frequency coverage and tracking adjustment setup

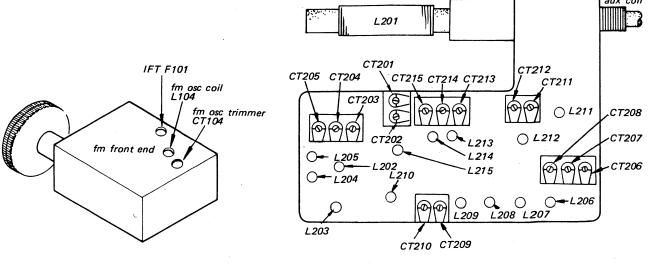


Fig. 3-6. Adjusting parts location, fm front end

Fig. 3-7. Adjusting parts location, cp circuit board — conductor side view —

3-4. TUNING METER CALIBRATION

- 1. Set the band selector to FM with no radio signal received.
- 2. Make sure that the base voltage of Q303 is 0.8 volts with a VOM $(20 \, k\Omega/V)$. If not, change R314 so as to obtain the value specified above.

R314	Part No.	Description	
	1-242-706	24 kΩ	⅓W
	1-242-707	$27 k\Omega$	1/4 W
	1-242-708	30 kΩ	1/4W
	1-242-709	$33 k\Omega$	⅓W
	1-242-710	$36k\Omega$	¼W
	1-242-711	39 kΩ	⅓W

3. Select the value of R320 so that the tuning meter indicates as shown in Fig. 3-8.

R320	Part No.	Descri	ption	
	1-244-658	240 Ω	⅓W	
	1-244-659	27ΟΩ	1/4W	
	1-244-660	300Ω	1/4W	
	1-244-661	33O Ω	1/4W	
	1-244-662	360Ω	1/4W	
	1-244-663	39 Ο Ω	⅓W	
	7			

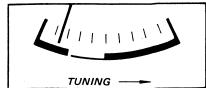
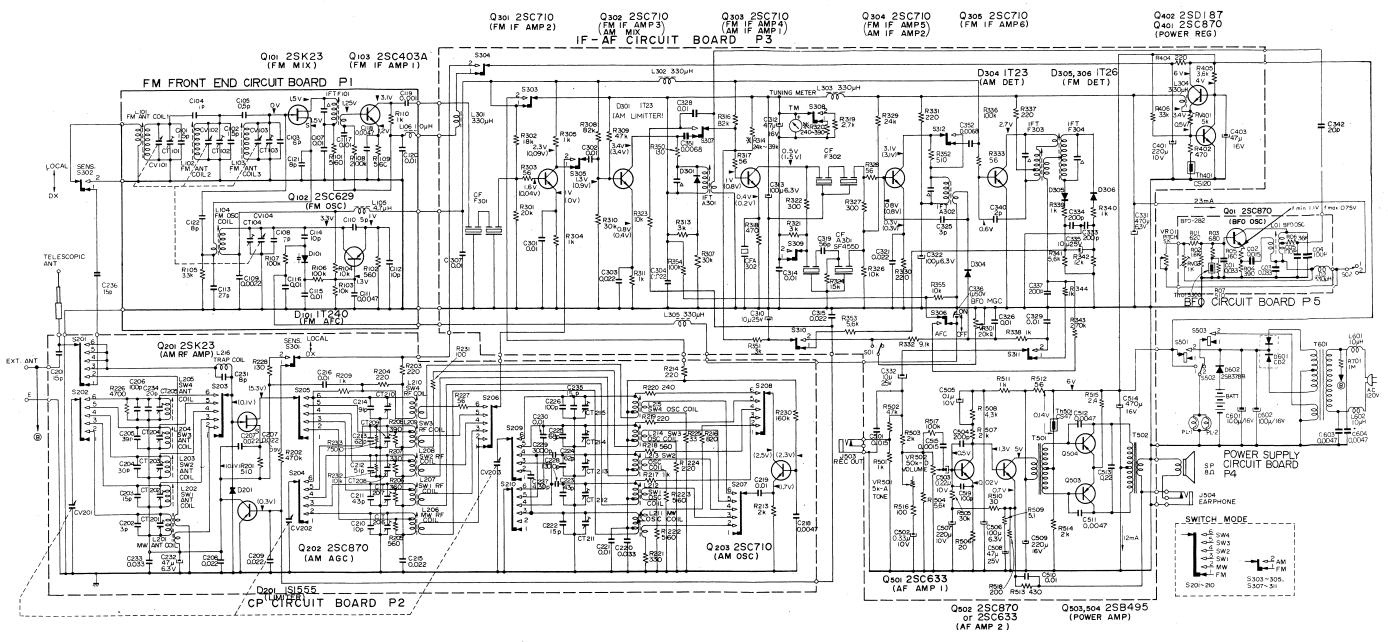


Fig. 3-8. Tuning meter indication with no signal

SECTION 4 SCHEMATIC DIAGRAM AND MOUNTING DIAGRAMS

4-1. SCHEMATIC DIAGRAM



Note:

- 1. shows grounding to chassis.
- 2. All resistors and capacitors are in Ω and μF , unless otherwise indicated.
- 3. Capacitor marked \triangle is built in i-f transformer.
- 4. The symbol * indicates a component whose value is selected to yield specified operating condition.
- 5. Voltage value is measured to ground circuit with a dc voltmeter $(20 \, k\Omega/V)$ and current value is measured with a dc ammeter. Voltage and current are taken with no radio signal received and the values shown in () with band selector set to MW. Variations may be noted due to normal production tolerances.

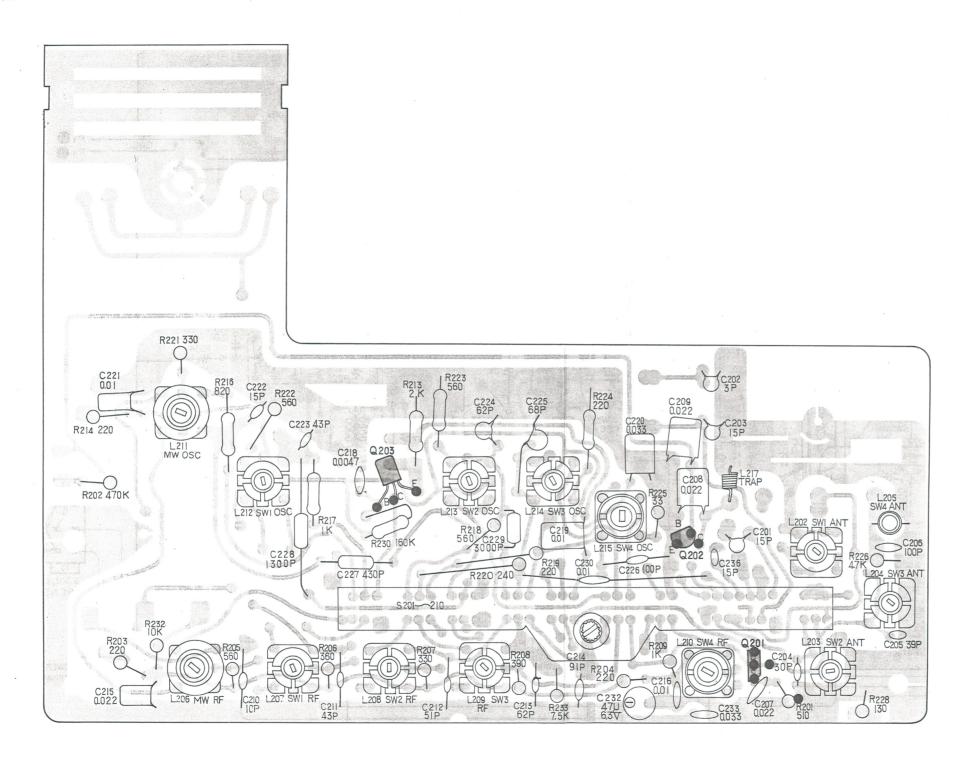
6. Switch Mode		
Ref. No.	Function	Position
$S201 \sim S210$	Band Selector	FM
S301, S302	SENS switch	DX
S303 ∼S305 S307 ∼S312	FM/AM select	FM
S306	AFC switch	OFF
S501, S503	POWER switch	OFF
S502	LIGHT switch	OFF
S01, S02	BFO MGC switch	OFF

4-2. CP CIRCUIT BOARD (P2) - MOUNTING DIAGRAM - Conductor Side -AUX COIL L201 MW ANT. GRN WHT BLK WHT 6 TUNING CAPACITOR CV203 CHASSIS # \ a 1 YEL R213 220 SW2 ANT BLU CT205 0.022 0.022 0.03V) - P3 **9** Q 203 T C218 T 0,00047 P4 🕝 🚤 R202 470k SW4 0 00 0 C206 100p O-H-O R226 4.7k -11 430p SW2 RF SWI RF CT 208 7 CT 207 SW3 ANT L204 TEL ANT. RED \$301,302 SENS. BRN (A) 8 ORG R228 \$ D201 TO POWER TRANSFORMER YEL EXT GND SWITCH MODE The following parts are mounted on the conductor side; CT201 ~ CT215, L205, Printed circuit board S201 ~ S210 -Part No. 1-581-013-12 (3) L216, C234, C235 and D201.

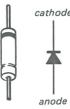
SW4 SW2 SW1 MW FM SW3 common

CP CIRCUIT BOARD (P2) - MOUNTING DIAGRAM

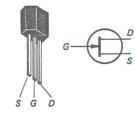
- Component Side -



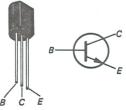




Q201 2SK23

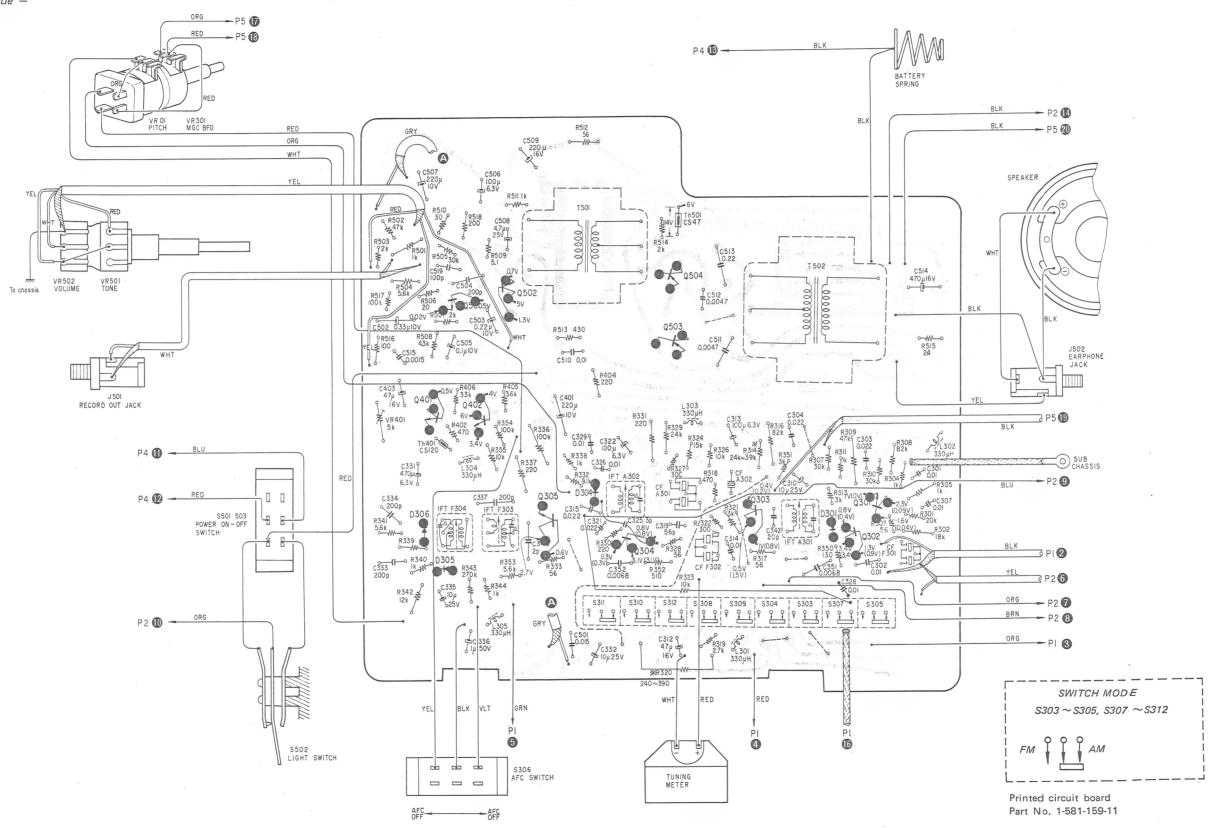


Q202 2SC870 Q203 2SC710



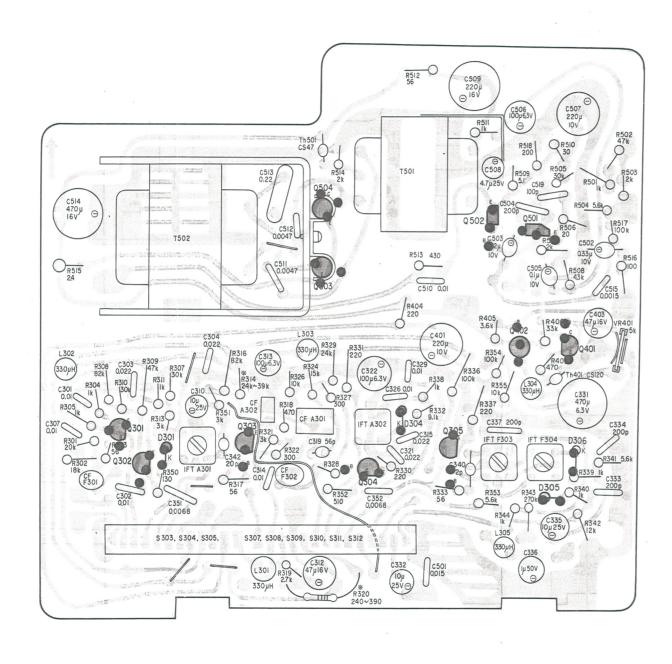
4-3. IF/AF CIRCUIT BOARD (P3) - MOUNTING DIAGRAM

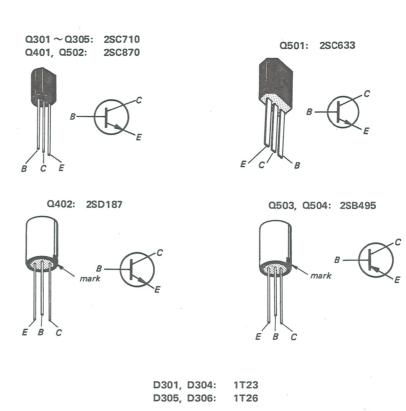
- Conductor Side -



IF/AF CIRCUIT BOARD (P3) - MOUNTING DIAGRAM

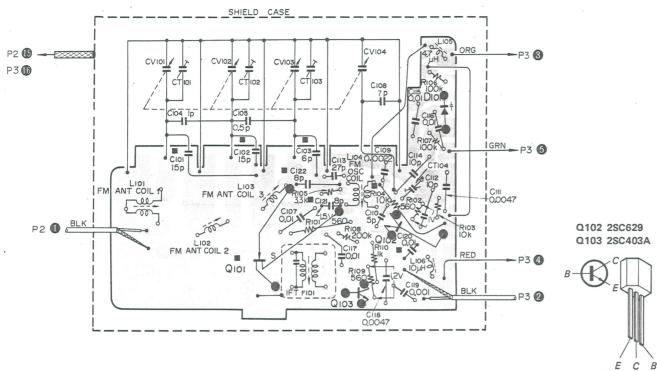
Component Side –



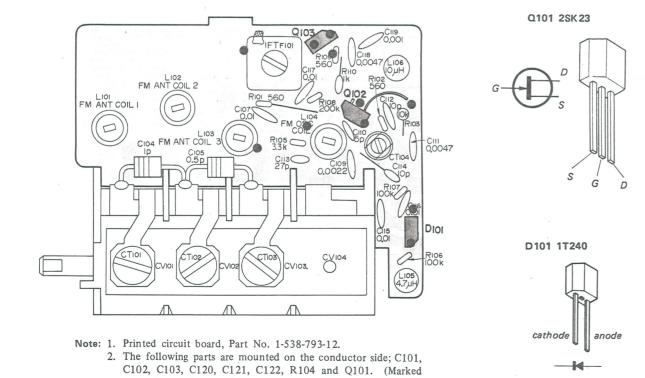


4-4. FM FRONT END CIRCUIT BOARD (P1) - MOUNTING DIAGRAM

- Conductor Side -



- Component Side -



MEMO	
· · · · · · · · · · · · · · · · · · ·	
·	

on the conductor side)

D602: 2SB378B

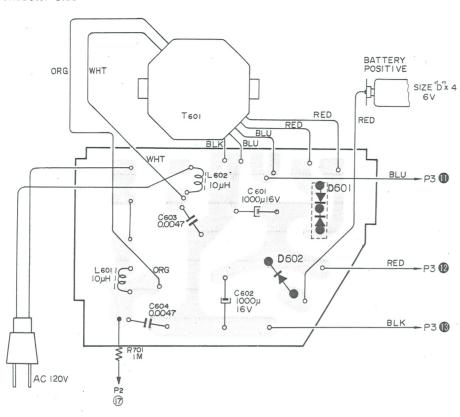
anode

mark

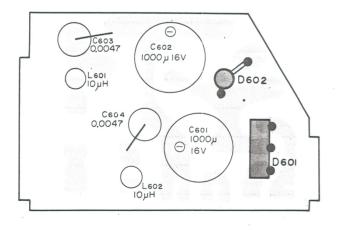
cathode

4-5. POWER SUPPLY CIRCUIT BOARD (P4) - MOUNTING DIAGRAM

- Conductor Side -



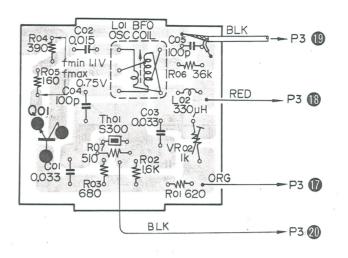
- Component Side -



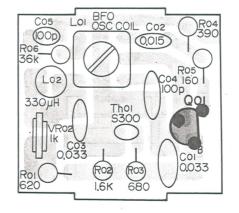
Printed circuit board Part No. 1-539-192-13

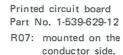
4-6. BFO CIRCUIT BOARD (P5) - MOUNTING DIAGRAM

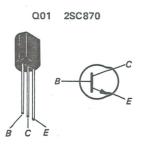
- Conductor Side -



- Component Side -

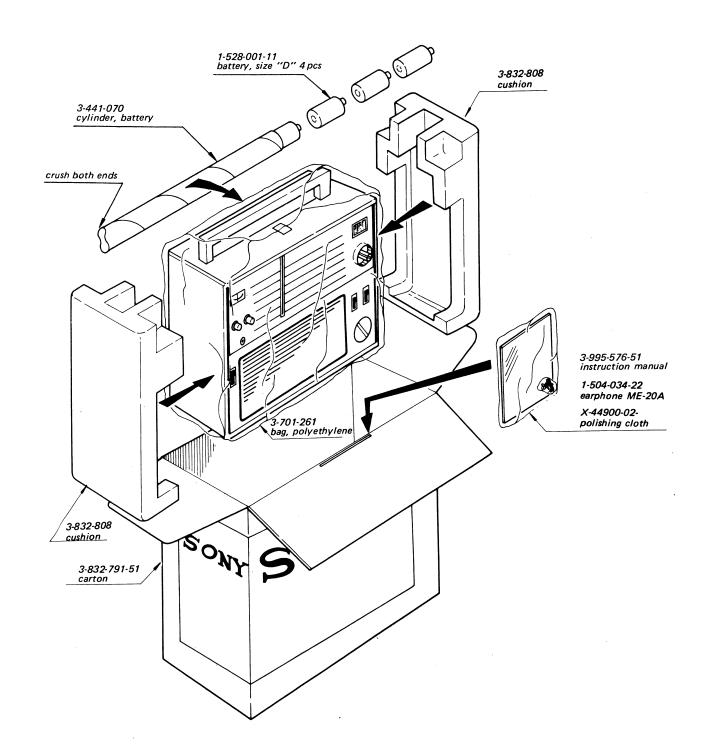


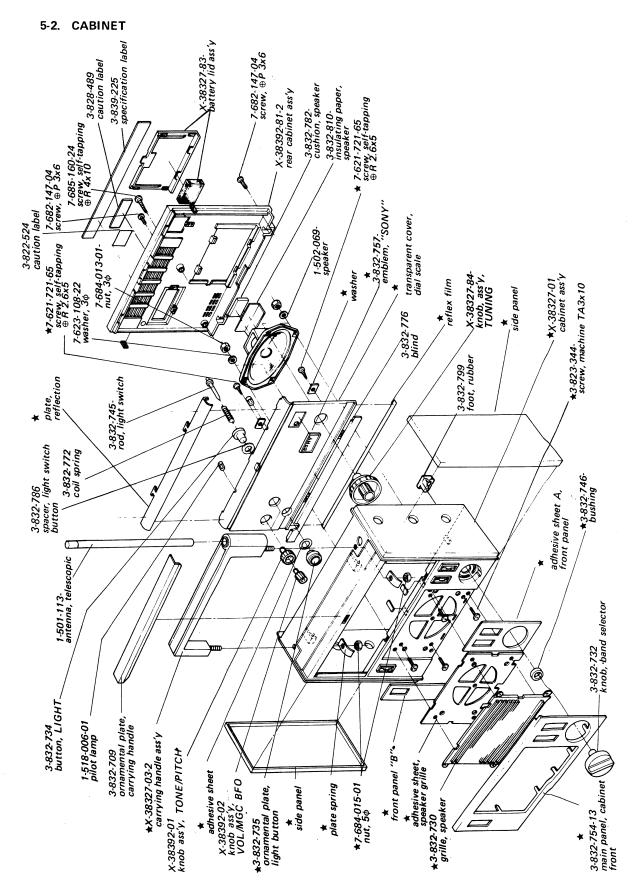




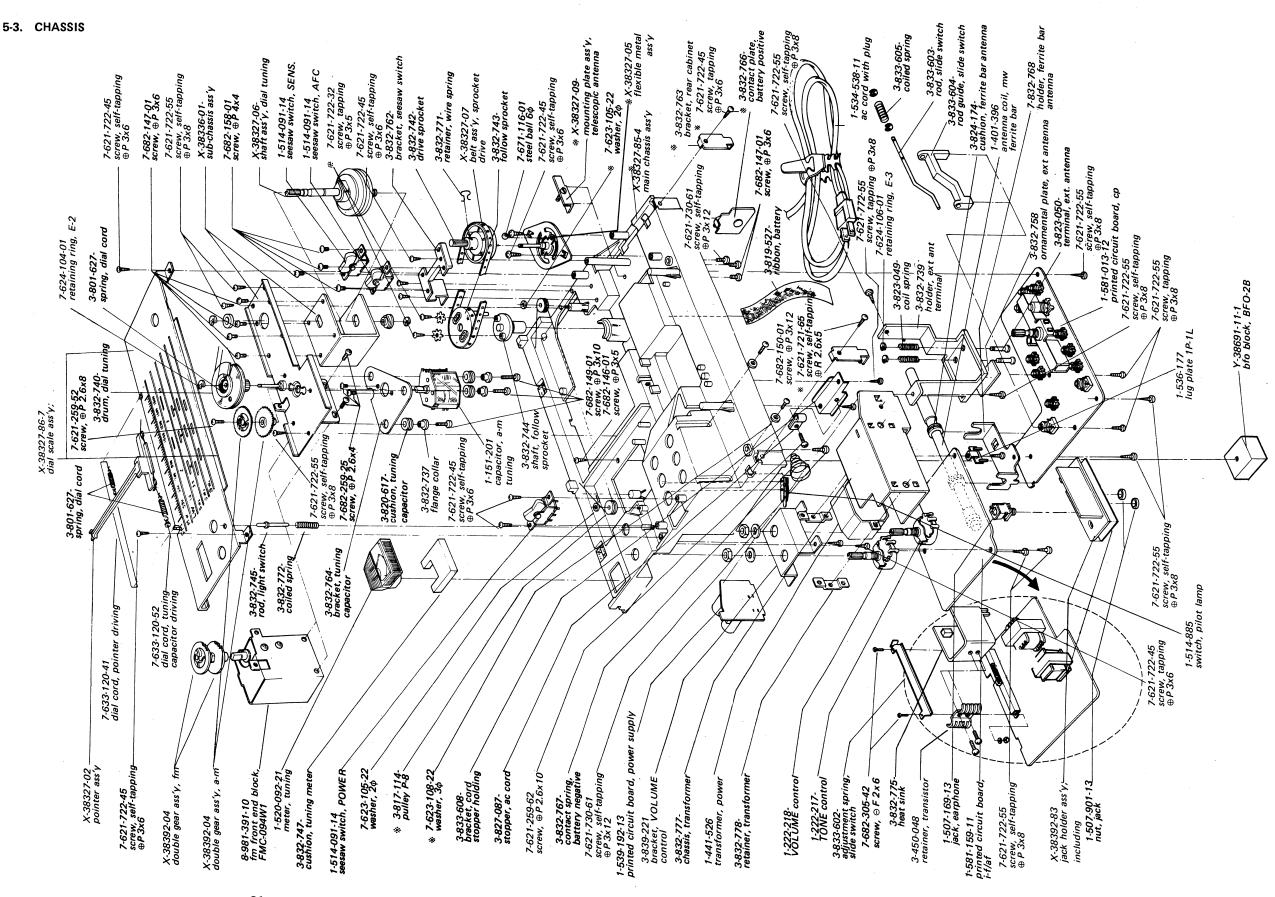
SECTION 5 EXPLODED VIEWS

5-1. PACKING





- 29 -



Parts marked * are included in main chassis ass'y, Part No. X-38327-85-4.

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SECTION 6 ELECTRICAL PARTS LIST

Ref. No.	Part No.		scription	Ref. No.	Part No.	Descript	ion_
,	SEMICO	NDUCTORS		L212	1-405-400	osc coil, sw1	
Q101		transistor	2SK 23	L213	1-405-401	osc coil, sw2	
Q102		transistor	2SC629	L214	1-405-402	osc coil, sw3	
Q103		transistor	2SC403A	L215	1-405-403	osc coil, sw4	
Q201		transistor	2SK23	L216	1-401-201	trap coil	
Q202		transistor	2SC870	L217	1-401-201	trap coil	
Q203		transistor	2SC710	L301	1-407-175	330 µH, micro ind	luctor
Q301		transistor	2SC710	L302	1-407-175	330 µH, micro ind	luctor
Q302		transistor	2SC710	L303	1-407-175	330 µH, micro ind	luctor
Q303		transistor	2SC710	L304	1-407-175	330 µH, micro inc	luctor
Q304		transistor	2SC710	L305	1-407-175	330 μH, micro ind	luctor
Q305		transistor	2SC710	L01	1-405-450	osc coil, bfo	
Q401		transistor	2SC870	L02	1-407-175	330 μH, micro inc	luctor
Q402		transistor	2SD187	IFT F101	1-403-294	transformer, fm i-	·f
Q501		transistor	2SC633	IFT F301		- discarded -	
Q502		transistor	2SC870	IFT F302		- discarded -	
Q503		transistor	2SB495	IFT F303	1-403-272-31	transformer, fm d	liscriminator
Q504		transistor	2SB495	IFT F304	1-403-273-31	transformer, fm d	liscriminator
Q01		transistor	2SC870	IFT A301	1-403-145-12	transformer, a-m	i-f
202				IFT A302	1-403-137-11	transformer, a-m	i-f
D101		diode	1T240	CF F301	1-527-501-13	ceramic filter, fm	i-f
D301		diode	1T23	CF F302	1-527-501-13	ceramic filter, fm	i-f
D302		 discarded 		CF A301	1-403-161-13	ceramic filter, a-n	n i-f
D303		 discarded 		CF A302	1-403-154-11	ceramic filter, a-r	n i-f
D304		diode	1T23	T501	1-423-100	transformer, drive	er
D305		diode	1T26	T502	1-427-259	transformer, outp	out
D306		diode	1T26	T601	1-441-526	transformer, pow	er
D601		diode	CD-2	L601	1-407-157	10μH, micro indi	uctor
D602		diode	2SB378B	L602	1-407-157	10μH, micro ind	uctor
Th401		thermistor	CS-120		CAPA	CITORS	
Th501		thermistor	CS-47	C101	1-101-861	15pF	ceramic
Th01		thermistor	S-300	C102	1-101-861	15pF	ceramic
11101		inormistor.		C103	1-101-956	6pF	ceramic
				C104	1-101-937	1 pF	ceramic
	COILS AND	TRANSFORM	ERS	C105	1-101-936	0.5 pF	ceramic
L101	1-425-526	antenna coil	1 fm	C106		- discarded -	
L102	1-425-525	antenna coil	,	C107	1-101-072	$0.01\mu\mathrm{F}$	ceramic
L103	1-425-525	antenna coil		C108	1-101-662	7pF	ceramic
L104	1-405-386	osc coil, fm		C109	1-102-121	$0.0022 \mu F$	ceramic
L105	1-407-186	micro induc		C110	1-102-864	5 pF	ceramic
L106	1-407-190	micro induc		C111	1-102-090	$0.0047\mu\mathrm{F}$	ceramic
L201	1-401-396		l, mw ferrite bar	C112	1-102-508	10pF	ceramic
L202	1-401-397	ant coil, SW	•	C113	1-101-869	27 pF	ceramic
L203	1-401-398	ant coil, SW		C114	1-101-976	10pF	ceramic
L204	1-401-399	ant coil, SW		C115	1-101-072	$0.01 \mu F$	ceramic
L205	1-401-400	ant coil, SW		C116	1-101-072	$0.01\mu\mathrm{F}$	ceramic
L205	1-425-552	rf coil, mw		C117	1-101-072	$0.01\mu\mathrm{F}$	ceramic
L207	1-425-553	rf coil, sw1		C118	1-105-829-12	0.0047 μF	mylar
L207	1-425-554	rf coil, sw2		C119	1-101-918	0.001 µF	ceramic
L209	1-425-555	rf coil, sw3		C120	1-101-072	$0.01 \mu F$	ceramic
L210	1-425-556	rf coil, sw4		C121	1-101-958	8pF	ceramic
L210 L211	1-405-399	osc coil, m		C122	1-101-958	8pF	ceramic
	1 .00 077	, III		•		=	

Ref. No.	Part No.	Description		Ref. No.	Part No.	Description		
C201	1-101-899	15pF	ceramic	C317		- discarded -		
C202	1-101-953	3 pF	ceramic	C318		- discarded -		
C203	1-101-861	15pF	ceramic	C319	1-101-885	56pF	ceramic	
C204	1-101-900	30pF	ceramic	C320		- discarded -		
C205	1-101-877	39pF	ceramic	C321	1-105-413-12	$0.022 \mu F$	mylar	
C206	1-101-963	100 pF	ceramic	C322	1-121-413	$100 \mu F$ 6.3 V	electroly tic	
C207	1-105-837-12	$0.022\mu\mathrm{F}$	mylar	C323		- discarded -		
C208	1-105-837-12	$0.022 \mu F$	mylar	C324		 discarded - 		
C209	1-105-837-12	$0.022 \mu F$	mylar	C325	1-101-953	3 pF	ceramic	
C210	1-101-960	10pF	ceramic	C326	1-105-411-12	$0.01 \mu F$	mylar	
C211	1-101-879	43pF	ceramic	C327		discarded –		
C212	1-101-883	51pF	ceramic	C328	1-105-411-12	$0.01 \mu F$	mylar	
C213	1-101-887	62pF	ceramic	C329	1-105-411-12	$0.01 \mu F$	mylar	
C214	1-101-895	91 pF	ceramic	C330		discarded –		
C215	1-105-837-12	$0.022\mu\mathrm{F}$	mylar	C331	1-121-425	470μF 6.3 V	electroly tic	
C216	1-105-833-12	$0.01\mu\mathrm{F}$	mylar	C332	1-121-398	$10\mu F$ 25 V	electrolytic	
C217		- discarded -		C333	1-107-138	200 pF	silvered mica	
C218	1-105-829-12	$0.0047\mu\mathrm{F}$	mylar	C334	1-107-138	200 pF	silvered mica	
C219	1-105-833-12	$0.01\mu\mathrm{F}$	mylar	C335	1-121-398	10μF 25 V	electroly tic	
C220	1-105-839-12	$0.033 \mu F$	mylar	C336	1-121-391	$1\mu F$ 50V	electroly tic	
C221	1-105-833-12	$0.01\mu\mathrm{F}$	mylar	C337	1-107-138	200 pF	silvered mica	
C222	1-101-899	15pF	ceramic	C338		- discarded -		
C223	1-102-966	43pF	ceramic	C339		- discarded -		
C224	1-101-887	62pF	ceramic	C340	1-101-952	2pF	ceramic	
C225	1-109-889	68pF	ceramic	C341		- discarded -		
C226	1-101-963	100 pF	ceramic	C342	1-102-958	20pF	ceramic	
C227	1-103-716	430 pF	styrol					
C228	1-103-728	1,300pF	styrol	C351	1-105-831-12	$0.0068\mu\mathrm{F}$	mylar	
C229	1-103-736	3,000pF	styrol	C352	1-105-831-12	$0.0068\mu\mathrm{F}$	mylar	
C230	1-105-833-12	$0.01\mu\mathrm{F}$	mylar					
C231	1-101-958	8pF	ceramic	C401	1-121-420	$220\mu\text{F}$ 10V	electroly tic	
C232	1-121-409	$47\mu F$ $16 V$	electroly tic	C402		discarded –		
C233	1-105-839-12	$0.033 \mu F$	mylar	C403	1-121-409	$47\mu F$ $16V$	electroly tic	
C234	1-101-973	20pF	ceramic					
C235	1-101-899	15pF	ceramic	C501	1-105-412-12	$0.015 \mu F$	mylar	
C236	1-101-899	15pF	ceramic	C502	1-127-021	$0.33 \mu F$ $10 V$	electrolytic (alox)	
				C503	1-127-020	$0.22\mu F$ $10V$		
C301	1-105-411-12	$0.01\mu\mathrm{F}$	mylar	C504	1-107-138	200 pF	silvered mica	
C302	1-105-411-12	$0.01\mu\mathrm{F}$	mylar	C505	1-127-019	$0.1\mu\mathrm{F}$ $10\mathrm{V}$		
C303	1-105-413-12	$0.022\mu\mathrm{F}$	mylar	C506	1-121-413	$100 \mu F$ 6.3 V		
C304	1-105-413-12	$0.022\mu F$	mylar	C507	1-121-420	$220\mu F$ $10V$		
C305		discarded –		C508	1-121 395	$4.7\mu F$ $25 \mathbf{V}$		
C306		discarded –		C509	1-121-358	220μF 16 V		
C307	1-105-411-12	$0.01\mu\mathrm{F}$	mylar	C510	1-105-411-12	$0.01 \mu F$	mylar	
C308		discarded –		C511	1-105-829-12	$0.0047\mu\mathrm{F}$	mylar	
C309		discarded –		C512	1-105-829-12	$0.0047\mu\mathrm{F}$	mylar	
C310	1-121-398	$10\mu F$ 25 V	electrolytic	C513	1-105-419-12	$0.22 \mu F$	mylar	
C311		discarded –		C514	1-121-426	470μF 16 V		
C312	1-121-409	$47\mu F$ $16 V$	electrolytic	C515	1-105-503-12	$0.0015\mu\mathrm{F}$	mylar	
C313	1-121-413	$100 \mu F$ 6.3 V	electroly tic	C516		discarded -		
C314	1-105-411-12	$0.01\mu\mathrm{F}$	mylar	C517		- discarded -		
C315	1-105-413-12	$0.022\mu\mathrm{F}$	mylar	C518		discarded –		
C316		discarded -	į	C519	1-101-963	100 pF	ceramic	

Ref. No.	Part No.		Desc rip t	ion	Ref. No.	Part No.	Description
C601	1-121-186	1,000µF	16 V	electroly tic	R228	1-242-652	130Ω
C602	1-121-186	1,000µF	16 V	electroly tic	R229		- discarded -
C603	1-115-110	$0.0047 \mu F$		paper	R230	1-244-726	160 kΩ
C604	1-115-110	$0.0047 \mu F$		paper	R231	1-244-649	100Ω
					R232	1-242-697	10 kΩ
C01	1-105-839-12	$0.033 \mu F$		mylar	R233	1-244-694	7.5 kΩ
C02	1-105-675-12	$0.015 \mu F$		mylar			
C03	1-105-839-12	$0.033 \mu F$		mylar	R301	1-242-704	20 kΩ
C04	1-102-764	100pF		ceramic	R302	1-242-703	18 kΩ
C 05	1-103-751	100 pF		styrol	R303	1-242-643	56 Ω
					R304	1-242-673	1 kΩ
					R305	1-242-673	1 kΩ
	RES	ISTORS			R306		discarded -
	esistors are ¼W ±		type re	sistors	R307	1-242-708	30 kΩ
unles	ss otherwise note				R308	1-242-719	82 kΩ
R101	1-208-027			ceramic	R309	1-242-713	47 kΩ
R102	1-208-027		¹/10 W	ceramic	R310	1-242-708	30 kΩ
R103	1-244-697	10kΩ			R311	1-242-673	1 kΩ
R104	1-244-697	10 kΩ			R312		discarded -
R105	1-208-045			ceramic	R313	1-242-684	3 kΩ
R106	1-208-145			ceramic		1-242-706	24 kΩ
R107	1-208-145			ceramic		1-242-707	27 kΩ
R108	1-208-088	200 kΩ		ceramic	* R314	1-242-708	30 kΩ
R109	1-208-027	560Ω	1/10 W	ceramic		1-242-709	33 kΩ
R110	1-208-033	1 kΩ	¹/10 W	ceramic		1-242-710	36 kΩ
						(1-242-711	39 kΩ
R201	1-242-666	510Ω			R315		discarded –
R202	1-242-737	470 kΩ			R316	1-242-719	82 kΩ
R203	1-242-657	220Ω			R317	1-242-643	56Ω
R204	1-242-657	220Ω			R318	1-242-665	470 Ω
R205	1-242-667	560Ω			R319	1-242-683	2.7 kΩ
R206	1-242-662	360Ω				[1-244-658	240 Ω
R207	1-244-661	330 Ω				1-244-659	270 Ω
R208	1-242-663	390Ω			* R320	1-244-660	300 Ω
R209	1-242-673	1 kΩ				1-244-661	330Ω
R210		- discarde				1-244-662	360Ω
R211		discardediscarde			D221	1 244-663	390Ω
R212	1-242-680	- discarde	u —		R321 R322	1-242-684 1-242-660	3 kΩ 300 Ω
R213 R214		220Ω			R323		
R214 R215	1-242-657	- discarde	.d _		R324	1-242-697 1-242-701	10 kΩ 15 kΩ
R215	1-242-672	820Ω	·u		R325	1-2-42-701	- discarded -
R217	1-244-673	1 kΩ			R326	1-242-697	10 kΩ
R217	1-242-667	560Ω			R327	1-242-660	300 Ω
R219	1-242-657	220Ω			R328	1-242-643	56Ω
R220	1-242-658	240Ω			R329	1-242-706	24 kΩ
R221	1-242-661	330Ω			R330	1-242-657	220 Ω
R222	1-244-667	560Ω			R331	1-242-657	220 Ω
R223	1-244-667	560Ω			R332	1-242-696	9.1 kΩ
R224	1-244-657	220Ω			R333	1-242-643	56 Ω
R225	1-244-637	33Ω			R334		- discarded -
R226	1-242-689	4.7 kΩ			R335		- discarded -
R227	1-244-643	56Ω			R336	1-242-721	100 kΩ
					•	: to be selected (
				35		•	

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R337	1-242-657	220Ω	R01	1-244-668	620Ω
R338	1-242-673	1 kΩ	R02	1-244-678	1.6 kΩ
R339	1-242-673	1 kΩ	R03	1-244-669	680Ω
R340	1-242-673	1 kΩ	R04	1-244-663	390 Ω
R341	1-242-691	5.6 kΩ	R05	1-244-654	160Ω
R342	1-242-699	12kΩ	R06	1-244-710	36 kΩ
R343	1-242-731	270 kΩ			
R344	1-242-673	1 kΩ	MISCELLANEOUS		
R350	1-242-652	130Ω	TEL ANT	1-501-113	antenna, telescopic
R351	1-242-684	3 kΩ	SP	1-502-069	speaker, 8 Ω
R352	1-242-666	510Ω	CV101~104	1-151-158	capacitor, fm tuning
R353	1-242-691	5.6 kΩ	CT101~103	1-131-136	capacitor, in tuning
R354	1-242-721	100 kΩ	CV201~203	1-151-201	capacitor, a-m tuning
R355	1-242-697	10 kΩ	CT104	1-141-086	capacitor, fm osc trimmer
			CT201, 202	1-141-011	capacitor, trimmer, 2 gang
R401		discarded -	CT203~205	1-141-015	capacitor, trimmer, 3 gang
R402	1-242-665	470 Ω	CT206~208	1-141-015	capacitor, trimmer, 3 gang
R403		discarded —	CT209, 210	1-141-011	capacitor, trimmer, 2 gang
R404	1-242-657	220 Ω	CT211, 212	1-141-011	capacitor, trimmer 2 gang
R405	1-242-686	3.6 kΩ	CT213~215	1-141-015	capacitor, trimmer 3 gang
R406	1-244-709	33 kΩ	VR01, 301	1-222-519	BFO PITCH, MGC control
			VR401	1-221-635	variable resistor, regulator adjust
R501	1-242-673	1 kΩ	VR501, 502	1-222-503	VOL and TONE control
R502	1-242-713	47 kΩ	J503	1-507-169-13	jack, record out
R503	1-242-680	2 kΩ	J504	1-507-169-13	jack, earphone
R504	1-242-691	5.6 kΩ		1-507-901-12	nut, jack
R505	1-242-708	30kΩ	S301, 302	1-514-091-14	switch, SENS (LOCAL/DX)
R506	1-242-632	20Ω	S303~305	1-514-454-12	switch, fm/a-m selector
R507	1-242-680	2kΩ	S307~312'	1 514 001 14	amitah AEC
R508	1-242-688	4.3 kΩ	\$306	1-514-091-14	switch, AFC
R509	1-242-618	5.1 Ω	S201~210 TM	1-514-577 1-520-092-22	switch, band select
R510	1-242-636	30Ω	PL1	1-518-006-01	meter, tuning lamp, LIGHT
R511	1-242-673	1 kΩ	PL2	1-518-006-01	lamp, LIGHT
R512	1-242-643	56Ω	11.2	1-534-538-11	ac cord with plug
R513	1-242-664	430Ω		8-981-391-10	fm front end block, FMC-094W1
R514	1-242-680	2 kΩ		Y-38691-11-1	bfo block, BFO-2B
R515	1-242-810	2.4 Ω		1-538-793-12	printed circuit board, fm front end
R516	1-242-449	100Ω		1-539-629-12	printed circuit board, bfo
R517	1-242-721	100 kΩ		1-581-013-12	printed circuit board, cp
R518	1-242-656	200Ω		1-581-159-11	printed circuit board, i-f/af
R701	1-202-645	1 MΩ ½W carbon		1-539-192-13	printed circuit board, power

When ordering replacement parts you should use PART NUMBER listed on the Parts List or shown in the Exploded View.

The reference number should not be used for ordering purposes.

SONY CORPORATION

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